MOTOROLA

Motorola
Two-Way Portable and Mobile Radio

Accessory and Battery Catalog

For Discontinued Two-Way Radio Models

PORTABLE RADIOS
ASTRO® Digital Saber
MT 2000™
MTS 2000™
LTS 2000™

MOBILE RADIOS
ASTRO® Digital SPECTRA™
ASTRO® Digital SPECTRA Plus™
SPECTRA
MCS 2000™
GTX
LCS 2000™

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Motorola Quality...

exceptional dependability

You already depend on Motorola two-way radios for mission critical communications.

You can continue to rely on Motorola Original® accessories to provide custom radio solutions.

You likely chose your Motorola two-way radios for their ease of use and exceptional reliability — certainly a sound decision. Choosing Motorola Original® accessories for your radios is also the right call to make.

For starters, every Motorola Original® accessory is performance-matched for Motorola radios — designed, built and rigorously tested to the same quality standards. So you can be sure that every product in this catalog will perfectly complement your radio's performance.

What's more, insisting on Motorola Original® accessories can help increase productivity. That's because you can count on every accessory to do its job time after time. If you take a chance on a mismatched antenna, or an inferior microphone, your radio may not perform at the moment you have to use it.

We offer a full collection of proven Motorola Original® accessories for your important and critical communication needs. You'll find remote speaker microphones for more convenient control. Carrying cases for ease when on the move. Earpieces to ensure privacy. Headsets for hands-free operation. High-capacity batteries to extend communication time, and more. They're all ready to help ensure you perform with greater authority and confidence.

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Law Enforcement

Motorola Original® accessories complement your existing radios and are perfectly suited to the demands of police work.

Fire Departments

Motorola Original® accessories that are customized to fire fighting needs can help provide freedom in the heat of action.

EMS Personnel

Emergency personnel require accessories for communicating exact position and immediate condition. Motorola Original® accessories deliver.

Government Agencies

From border patrols to Military operations Motorola Original® accessories help ensure that your agency will get the mission accomplished.

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portable radio: audio

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

Remote Speaker Microphones (RSM)

These Remote Speaker Microphones are water-resistant and allow talking and listening without removing the radio from the belt or case. They have a 6-foot coiled cord assembly, 3.5mm audio jack, Push-to-Talk switch, swivel clip and quick disconnect latch. Clothing clip on the microphone back clips securely onto shirt or collar.

	Astro Digital Saber
NMN6225B*	Remote Speaker Microphone with 6-Foot Coil Cord
	MT 2000/MTS 2000
PMMN4045A*	Noise-Cancelling Remote Speaker Microphone with 3.5mm audio jack
0104026J83	Replacement Coil Cord Assembly for PMMN4045A

Windporting Remote Speaker Microphones (RSM)

The windporting feature dramatically lessons background noise from high winds and other severe weather conditions. IP57 Submersible tested at 1 meter for 30 minutes.

	LTS 2000
PMMN4013A*	Remote Speaker Microphone with 3.5mm audio jack
PMMN4029A*	Remote Speaker Microphone with IP57 rating
	MT 2000/MTS 2000
PMMN4038A*	Windporting Remote Speaker Microphone, IP57
PMMN4051A*	Windporting Remote Speaker Microphone with 3.5mm audio jack
RLN5925A	Replacement Coil Cord Assembly for PMMN4013A and PMMN4029A
0104023J42	Replacement Coil Cord Assembly for PMMN4038A
0104028J67	Replacement Coil Cord Assembly for PMMN4051A

Remote Speaker Microphone with Emergency Button

The orange button on the microphone head can be used to signal that the operator needs help. This microphone offers high/low volume control and has a 3.5mm audio jack on the microphone head. Emergency activation from the RSM is delayed until programmed Mandown Pre-alert and Post-alert delays elapse. Depending on radio model, factory defaults or previous programming could set the delay times for as long as 8 to 120 seconds.

	MT 2000/MTS 2000
RMN5038A*	Remote Speaker Microphone with Emergency Button

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*Intrinsically Safe

Remote Speaker Microphone Audio Accessories

The following earpieces are compatible with all Remote Speaker Microphones with 3.5mm unthreaded audio jack on the head of the microphone.

RLN4941A*	Receive-Only Earpiece with Translucent Tube and Rubber Eartip
AARLN4885B*	Receive-Only Covered Earbud
WADN4190B*	Receive-Only Flexible Earpiece
PMLN4620A	Receive-Only D-Shell Earpiece

RLN4941A

AARLN4885B

WADN4190A

PMLN4620A

Public Safety Microphones (PSM)

Public Safety Speaker Microphones include straight cord assembly, swivel clip, 3.5mm audio jack, quick disconnect latch, antenna connector and receive audio high/low toggle switch. Please use radio antenna, sold separately.

Astro Digital Saber

All UHF PSM require RF adapter NTN8327B, sold separately.

NMN6227B	UHF Public Safety Microphone with 30 Inch Straight Cord
NMN6234B	UHF Public Safety Microphone with 24 Inch Straight Cord
NMN6236B	UHF Public Safety Microphone with 18 Inch Straight Cord

MT 2000/MTS 2000

NMN6228C*	Noise-cancelling Public Safety Microphone with 30 Inch Straight Cord
NMN6244B*	Noise-cancelling Public Safety Microphone with 24 Inch Straight Cord
NMN6243B*	Noise-cancelling Public Safety Microphone with 18 inch Straight Cord

Plug is located on the radio connector.

Note: Not compatible with SABER or Systems SABER radios and not recommended for use with VHF. Utilizes the same antenna as the ASTRO SABER, sold separately.

NMN6228C

Antennas for Public Safety Microphones

Astro Digital Saber

8505309N09	400-430 MHz Antenna
8505309N10	440-470 MHz Antenna

For MT 2000/MTS 2000 PSM antennas, see the radio antennas available.

Epaulet Straps, Velcro Patch and Cover

Black leather Epaulet Straps secure the Remote Speaker Microphone to epaulet on shirt or jacket and accommodate back clip in leather cut-outs. Snap closure secures cord to allow reliable communications in hostile environments.

RLN4294A	Epaulet Strap, Velcro
RLN4295A	Epaulet Strap, with Clip
NLN8410A	Velcro Patch Pin Attachment. For speaker/microphone assemblies.

Astro Digital Saber

NTN7061A	Universal Connector Cover

RLN4294A

RLN4295A

NTN7061A

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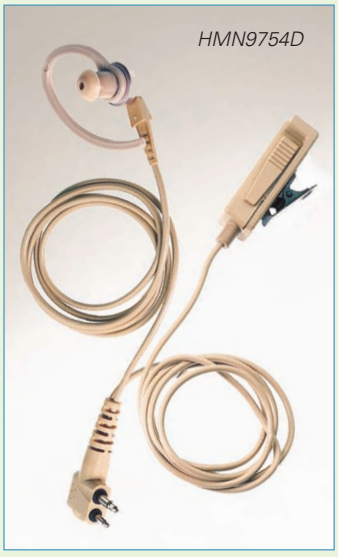
NSN6050A

RLN4894A


HMN9754D

Surveillance Kits

Surveillance accessories allow the user to receive messages privately through the earpiece – ideal when discreet communication is required.

Astro Digital Saber

These surveillance kits require adapter NTN5664D which allows users to load the encryption keys into the Saber radios through the keyloader, if needed

1-WIRE SURVEILLANCE KIT

NSN6050A*	Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.

2-WIRE SURVEILLANCE KIT

ZMN6038A*†	Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.

3-WIRE SURVEILLANCE KIT

ZMN6039A*†	Extra Loud Earpiece with Microphone and Push-to-Talk Combined (3-Wire). Beige.

SURVEILLANCE KIT ADAPTER

NTN5664D	Adapter with Keyload Capability, required. Allows users to load the encryption keys into the Saber radios through the keyloader, if needed.

MT 2000/MTS 2000

These surveillance kits require adapter BDN6676D.

1-WIRE SURVEILLANCE KITS

BDN6664A*	Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
BDN6665A*†	Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
BDN6726A*	Receive-Only Earpiece with Standard Earphone (1-Wire). Black
BDN6727A*†	Extra Loud Receive-Only Earpiece with Standard Earphone (1-Wire). Black
BDN6666A*	Receive-Only Earpiece with Volume Control and Earloop (1-Wire). Beige.
BDN6728A*	Receive-Only Earpiece with Volume Control and Earloop (1-Wire). Black.

2-WIRE SURVEILLANCE KITS

BDN6667A*	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
BDN6669A*†	Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
BDN6729A*	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.
BDN6731A*†	Extra Loud Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.

3-WIRE SURVEILLANCE KITS

BDN6668A*	Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Beige.
BDN6670A*†	Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Beige.
BDN6730A*	Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Black
BDN6732A*†	Extra Loud Earpiece with Microphone and Push-to-Talk Separate (3-Wire). Black

LTS2000

1-WIRE SURVEILLANCE KITS

HMN9727B*	Receive-Only Earpiece with Standard Earphone (1-Wire). Beige.
RLN4894A	Receive-Only Earpiece with Standard Earphone (1-Wire). Black.

2-WIRE SURVEILLANCE KITS

HMN9754D*	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige.
RLN4895A	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black.

BDN6668A

*Intrinsically Safe

†Extra Loud Earphone (exceeds OSHA limits)

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Surveillance Kits - With Extended-Wear Comfort Earpiece

These kits include an extended-wear comfort earpiece with rubber eartip and Quick Disconnect clear, comfortable acoustic tube. Users hear transmissions clearly, and the clear tube provides a discreet appearance.

RLN5312A

MT 2000/MTS 2000

These surveillance kits require adapter BDN6676D.

RLN5314A	Comfort Earpiece, Receive-Only. Beige.
RLN5313A	Comfort Earpiece, Receive-Only. Black.
RLN5311A	Earpiece with Microphone and PTT Combined (2-Wire). Beige.
RLN5312A	Earpiece with Microphone and PTT Combined (2-Wire). Black.

LTS 2000

RLN5317A	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Beige
RLN5318A	Earpiece with Microphone and Push-to-Talk Combined (2-Wire). Black

Quick Disconnect Noise Kits

Extreme Noise Kits provide extra comfort and/or noise protection for users wearing surveillance accessories. Lightweight, translucent tube attaches to Motorola surveillance accessories to provide flexibility and comfort, which now includes a new quick disconnect adapter. The Quick Disconnect Adapter allows users, especially those in multiple shift operations, to easily remove or alternate acoustic tubes. Clothing clip prevents accessory from being pulled from the ear due to body movement or head rotation. For optimal performance, Extra Loud Earphones are recommended.

RLN6230A

RLN6241A

RLN6230A	Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces. Black.
RLN6231A	Extreme Noise Kit. Includes 2 foam earplugs. For high-noise environments. Noise reduction = 24dB. Can be used with Clear Comfortable Earpieces. Beige.
RLN6232A	Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 clear rubber eartip. For low-noise environments, does not provide hearing protection. Black.
RLN6241A	Low Noise Kit - Clear Acoustic Tube Assembly. Includes 1 clear rubber eartip. For low-noise environments, does not provide hearing protection. Beige.
5080369E39†	Extra Loud Earphone. Beige.
5080370E91†	Extra Loud Earphone. Black.

REPLACEMENT ACCESSORIES

RLN6242A	Quick Disconnect Acoustic Tube Replacement
5080384F72	Replacement Foam Plugs. Noise reduction = 24dB. Pack of 50. For RLN6230A and RLN6231A.
5080370E97	Replacement Standard Clear Rubber Eartips. Pack of 25. For RLN6232A and RLN6241A.
BDN6676D	3.5 mm threaded adapter jack with Quick Disconnect Latch

Clear Comfortable Earpieces

The Clear Comfortable Earpiece forms to the inside of the ear and is perfect for low noise environments. It's made of easy-to-clean, chemically-inert hypo-allergenic material. Compatible with RLN6232/RLN6241 and all Surveillance Kits.

RLN4760A	Small Custom Earpiece - Right Ear
RLN4761A	Medium Custom Earpiece - Right Ear
RLN4762A	Large Custom Earpiece - Right Ear
RLN4763A	Small Custom Earpiece - Left Ear
RLN4764A	Medium Custom Earpiece - Left Ear
RLN4765A	Large Custom Earpiece - Left Ear

Clear Comfortable Earpieces

*Intrinsically Safe

†Extra Loud Earphone (exceeds OSHA limits)

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RLN4922A

Completely Discreet Earpiece

Completely Discreet Wireless Earpiece Kit

Enables users to communicate with ease, in full privacy, without visible equipment. This miniaturized receiver is discreetly hidden in the ear, where it can be worn comfortably for long periods of time. Small as it is, it offers a full range of audio functions including automatic squelch, automatic gain control and noise filtering. Average battery life is approximately 100 hours and includes an end-of-life warning signal when the battery needs to be changed. Kit includes wireless receiver, inductive neckloop, 6 spare batteries and 5 spare earguards. For use with any standard 2 or 3-Wire Motorola Surveillance Kit.

MT 2000/MTS 2000/LTS 2000

RLN4922A	Completely Discreet Earpiece Kit
RLN4919A	Replacement Earguards. 5 per pack.
RNN4005A	Replacement 1.4 Volt Batteries. 6 per pack.

Ear Microphone Systems (EMS)

This compact, lightweight unit picks up sound through bone vibrations in the ear canal. The miniature earpiece leaves the hands-free and face unobscured, good for rescue and emergency personnel that must retain the ability to help, hear and speak directly to others not on the communication system. EMS may be worn with protective masks without reduction in clarity of sound. It's ideal for high-noise environments. Available in PTT or Voice-Activated (VOX). Interface Module is required and sold separately.

BDN6677A and BDN6708A

0180300E83

0180300E25

ASTRO Digital Saber

BDN6677A*	EMS. Black. For standard noise levels (up to 95dB).
BDN6678A*	EMS. Beige. For standard noise levels p to 95dB).
BDN6641A*	EMS. Grey. For high-noise levels (up to 105dB).
BDN6642B*	Push-to-Talk Only Interface Module
BDN6643B*	Push-to-Talk and Voice-Activated Interface Module

MT 2000/MTS 2000

BDN6677A*	EMS. Black. For standard noise levels (up to 95dB).
BDN6678A*	EMS. Beige. For standard noise levels p to 95dB).
BDN6641A*	EMS. Grey. For high-noise levels (up to 105dB).
BDN6708B*	Push-to-Talk Only Interface Module
BDN6671B*	Push-to-Talk and Voice-Activated Interface Module

LTS 2000

BDN6646C*	EMS. Black. For standard noise levels (up to 95dB).
BDN6706B*	EMS with Voice-Activated and PTT Interface For standard noise levels (up to 95dB).

OPTIONAL ACCESSORIES FOR THE EMS

ASTRO Digital Saber/MT 2000/MTS 2000/LTS 2000

0180300E25	Earguard with Adjustable Loop
0180358B38*	Remote Push-to-Talk Ring Switch
0180300E83*	Remote Push-to-Talk Body Switch
0180358B32	Earholder. Black, size small. Secures Ear Microphone in ear.
0180358B33	Earholder. Black, size medium. Secures Ear Microphone in ear.
0180358B34	Earholder. Black, size large. Secures Ear Microphone in ear.
0180358B35	Earholder. Clear, size small. Secures Ear Microphone in ear.
0180358B36	Earholder. Clear, size medium. Secures Ear Microphone in ear.
0180358B37	Earholder. Clear, size large. Secures Ear Microphone in ear.
4280369E44	Replacement Belt Clip with Screws
5080358B28	Eartips. Black, size medium. Pack of 10.
5080358B29	Eartips. Black, size large. Pack of 10.
5080358B30	Eartips. Beige, size medium. Pack of 10.
5080358B31	Eartips. Beige, size large. Pack of 10.
0180305J46	Training CD. For Ear Microphone System and Temple Transducer.

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portable radio: headsets

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

Flexible Ear Receiver

This receive-only earpiece contains a flexible earloop and speaker which rests external to the ear. Black, without volume control.

Astro Digital Saber

BDN6717B	Flexible Ear Receiver
NTN5664D	Adapter with keyload capability, required. Allows users to load the encryption keys into the Saber radios through the keyloader, if needed.
7580372E11	Replacement Foam Ear Cushion

MT 2000/MTS 2000

BDN6719A	Flexible Ear Receiver with 3.5mm Threaded Plug. No adapter required if used with Public Safety Microphone.
BDN6676D	3.5mm Jack Adapter with Quick Disconnect Latch
7580372E11	Replacement Foam Ear Cushion

LTS 2000

BDN6720A	Flexible Ear Receiver
7580372E11	Replacement Foam Ear Cushion

Pellet-Style Earpieces

Pellet-style earpieces allow users to receive communication discreetly and are comfortable for extended-wear use.

MT 2000/MTS 2000

BDN6780A*	Earbud with Microphone and Push-to-Talk. Requires adapter BDN6676D unless being used with Public Safety Microphones.
BDN6781A*	Earbud, receive-only. Requires adapter BDN6676D unless being used with Public Safety Microphones.
BDN6676D*	3.5mm Jack Adapter with Quick Disconnect Latch
7580372E70	Replacement Foam Cushion for Pellet Earpieces

Temple Transducer

This headset allows the user to receive audio without covering the ear. It features an In-line PTT and noise-cancelling boom microphone.The Temple Transducer enhances communication and safety by not impairing the user's hearing of the external sound environment, such as machinery and equipment, warning and fire alarms, the intercom, traffic and even casual conversations with co-workers.

MT 2000/MTS 2000

RMN4049A*	Temple Transducer
0180305J46	Training CD. For Ear Microphone System and Temple Transducer.

Rugged Temple Transducer

The Rugged Temple Transducer comes equipped with all the features of the basic model. It sports a bigger Push-to-Talk button and a larger noise-cancelling boom microphone. It is fully adjustable for different head sizes, making it comfortable for extended-wear. Over-the-head band allows users to wear helmets, hardhats and other head gear – and it really stays in place. Water-resistant boom microphone is ideal for use in blowing rain and the secure cap on PTT prevents accidental activation in mission critical situations.

MT 2000/MTS 2000

RMN5049A*	Rugged Temple Transducer

*Intrinsically Safe

Temple Transducers

The receiver portion of this accessory rests on the temples and is capable of converting the receive audio from a two-way radio into sound vibration. The sound vibration is transmitted through the surrounding human tissue and bone directly into the inner ear where it is received by the user.

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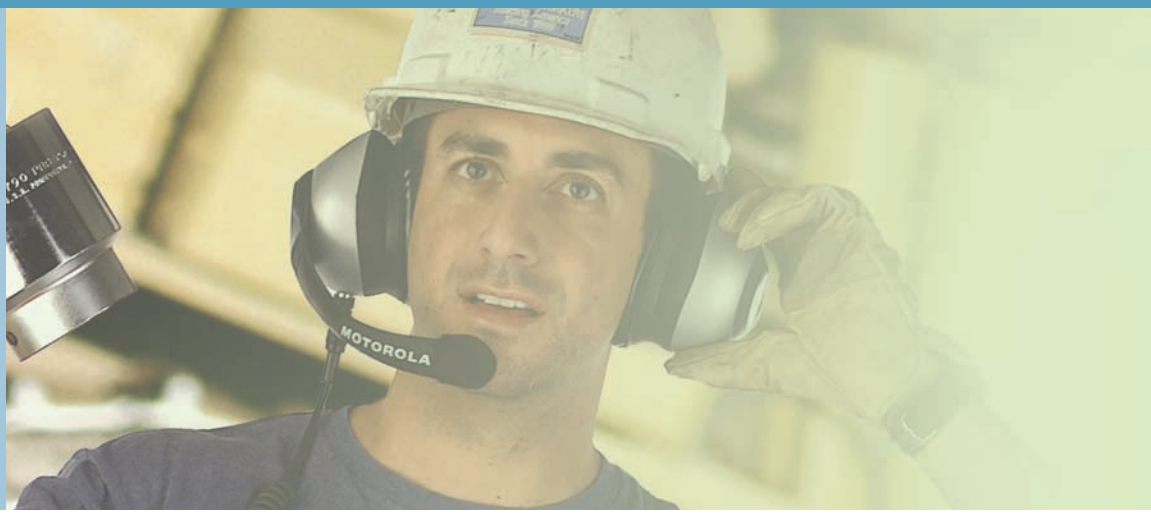
portable radio: headsets

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

Winning Quality

The same winning quality and dependability you see at professional football stadiums and speedways can be yours with Motorola headsets.



RMN5015A

NMN6245A

NMN6246B

Racing Headset

This heavy-duty headset can be worn with most hard hats. Ideal for high-noise environments; racing teams like CART® use it in the pits for dependable communication. Adapter Cable required.

	MT 2000/ MTS 2000
RMN5015A	Racing Headset with Noise-Cancelling Swivel Boom Microphone Behind-the-Head style. Noise reduction rating = 24dB.
BDN6673B	Adapter Cable for RMN5015A

Receive-Only Headsets

Receive-Only Headsets are the right choice for high-noise environments where users must hear information clearly, but seldom need to transmit. Dual-Muff headsets feature easily replaceable earseals filled with a liquid and foam combination to provide excellent protection from outside noise as well as comfort. They can be plugged directly into the radio when used with BDN6676D.

	MT 2000/ MTS 2000
RMN4056B	Receive-Only Dual-Muff Headband Style Headset. Can be plugged directly into radio with 3.5mm adapter BDN6676D. Noise reduction = 24dB.
RMN4057B	Receive-Only, Dual-Muff, Hardhat Headset. Mounts easily to hard hats with slots. Can be plugged directly into radio with 3.5mm adapter BDN6676D. Noise reduction = 22dB.
BDN6676D	3.5mm Jack Adapter with Quick Disconnect Latch

Lightweight Headsets

Lightweight headsets provide high-clarity, hands-free, discreet two-way communication, while maintaining the comfort necessary for extended-wear in moderate noise environments.

	Astro Digital Saber
NMN6050B*	Lightweight Headset with Boom Microphone Can be worn with a helmet or safety glasses. Requires adapter cable NTN5913A.
NTN5913A*	Headset Adapter Cable with Bayonet Jack.

	MT 2000/MTS 2000
NMN6245A*	Single-Muff Lightweight Headset with In-Line PTT Switch Requires audio adapter BDN6676D.
NMN6246B*	Ultra-Light Headset with Boom Microphone, In-Line PTT Switch Earbud style receiver. Requires audio adapter BDN6676D.
BDN6676D	3.5mm Jack Adapter with Quick Disconnect Latch

	LTS 2000
RMN4016B*	Single-Muff, Adjustable, Lightweight Headset with Boom Microphone and In-line PTT
REX4648A	Replacement Foam Earpad and Windscreen for RMN4016A

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portable radio: headsets

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

Noise-Cancelling Headsets with Boom Microphone

Ideal for two-way communication in extreme noise environments. Dual-Muff, tactical headsets include 2 microphones on outside of earcups which reproduce ambient sound back into headset. Harmful sounds are suppressed to safe levels and low sounds are amplified up to 5 times original level, but never more than 82dB. Has on/off volume control on earcups. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Adapter Cable RKN4095A required.

	MT 2000/MTS 2000
RMN4052B	Tactical Headband Style Headset. Grey, Noise reduction = 24dB.
RMN4053B	Tactical Hardhat Mount Headset. Grey, Noise reduction = 22dB.
RKN4095A	Adapter Cable with In-Line Push-to-Talk For use with RMN4051B/RMN4052A/RMN4053A.
	REPLACEMENT EARSEALS
RLN4923B	Replacement Earseals for RMN4051B/RMN4052A/RMN4053A Includes 2 snap-in earseals.

Hardhat Mount Headset With Noise-Cancelling Boom Microphone

Ideal for two-way communication in high-noise environments, this headset mounts easily to hard-hats with slots, or can be worn alone. Easily replaceable ear seals are filled with a liquid and foam combination to provide excellent sealing and comfort. 3-foot coiled cord assembly included. Noise reduction of 22dB. Separate In-line PTT Adapter Cable RKN4095A required. Hardhat not included.

	MT 2000/MTS 2000
RMN4051B	Two-way, Hardhat Mount Headset with Noise-Cancelling Boom Microphone. Black.
RKN4095A	Adapter cable with In-Line PTT. For use with RMN4051B/RMN4052A/RMN4053A.

Medium Weight Headsets

Medium weight headsets offer high-clarity sound, with the additional hearing protection necessary to provide consistent, clear, two-way radio communication in harsh, noisy environments or situations.

	MT 2000/MTS 2000
NMN6258A*	Medium Weight, Dual-Muff, Over-the-Head Style Headset with In-line PTT. Noise reduction rating = 24dB.
NMN6259A*	Medium Weight, Dual-Muff, Behind-the-Head Style Headset Can be worn with hardhat. Noise reduction rating = 24dB.

Heavy-Duty Headsets

Heavy-duty headsets include noise-cancelling boom microphones and can be worn with or without a hardhat. The Push-to-Talk switch is located on the earcup. On voice-activated models, the VOX module is contained within the headset. Headsets are for use in noise levels up to 125dB. Heavy-duty headsets require radio adapter cable, sold separately.

	Astro Digital Saber/MT 2000/MTS 2000
BDN6645A*	Push-to-Talk Headset with Boom Microphone Noise reduction rating = 24dB.
BDN6635C	Voice-Activated (VOX) Headset with Boom Microphone Noise reduction rating = 24dB.
BDN6636C*	Voice-Activated (VOX) Headset with Throat Microphone Noise reduction rating = 24dB.
BDN6673B*	Radio Adapter Cable. For MT 2000 and MTS 2000.
BDN6640A*	Radio Adapter Cable. For ASTRO Digital Saber

RMN4052A

RMN4051B

NMN6258A

BDN6645A

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portable radio: carry accessories

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

Cases Save Time

You'd be surprised how much time can be saved in emergencies when each user's radio is always in the same place — made easy by this versatile selection of Motorola Original® carry accessories.

Leather and Nylon Carrying Cases

Motorola carry cases were developed to meet the demands of public safety and other users who operate in the most rigorous of environments. A variety of carrying accessories are available for comfort and convenience.

Leather cases are constructed of top grain, 8 ounce leather and all stainless steel hardware. High-activity cases have a swivel D-ring button and belt loop. To remove case from belt loop, rotate case 180 degrees and slide case upward, out of the holder. Case stays on belt more securely in high-activity applications while allowing the radio to swing freely with body movements.

Astro Digital Saber

FOR MEDIUM CAPACITY NiCd BATTERIES

NTN5578A	Leather Standard Snap Case with Belt Loop and D-rings T-strap sold separately.
NTN5644A	Leather Swivel Snap Case with D-rings T-strap and swivel belt loop sold separately.
NTN8124A	High-Activity Leather Swivel Snap Case with D-rings T-strap and swivel belt loop sold separately.

FOR ULTRA-HIGH CAPACITY NiCd BATTERIES

NTN7572A	Leather Standard Snap Case with Belt Loop and D-rings T-strap sold separately.
NTN7573A	Leather Swivel Snap Case with D-rings T-strap and swivel belt loop sold separately.
NTN8125A	High-Activity Leather Swivel Snap Case with D-rings T-strap and swivel belt loop sold separately.

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portable radio: carry accessories

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

MT 2000/MTS 2000

STANDARD BELT LOOP CASE

NTN7238A	Leather Case with Belt Loop, D-rings and T-strap. For use with high-capacity battery.
NTN7239A	Leather Case with Belt Loop, D-rings and T-strap. For use with ultra-high capacity battery.
NDN4018B	Leather DTMF Case with Belt Loop, D-rings and Antenna Strap. For use with high and ultra-high capacity batteries.
NTN7247A	Nylon Case with Belt Loop and StraP. For use with high and ultra-high capacity batteries.

HIGH-ACTIVITY SWIVEL CASES

NTN8035B	Leather Case with 2.5 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with high-capacity battery.
NTN8037B	Leather Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with high-capacity battery.
NTN8036B	Leather Case with 2.5 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with ultra-high capacity battery.
NTN8038B	Leather Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with ultra-high capacity battery.
NDN4017B	Leather DTMF Case with 3 Inch High-Activity Swivel Belt Loop, D-rings and T-strap. For use with high and ultra-high capacity battery.

LTS 2000

STANDARD BELT LOOP CASE

HLN9428A	Leather DTMF Case with Belt Loop and-D-rings For use with standard capacity battery.
HLN9429A	Leather DTMF Case with Belt Loop and D-rings For use with FM approved 1100 mAh battery.
HLN9431A	Leather DTMF Case with Belt Loop and D-rings For use with FM approved 600 mAh slim battery.

HIGH-ACTIVITY SWIVEL CASES

HLN9421A	Leather DTMF Case with High-Activity Swivel Belt Loop. For use with standard battery.
HLN9426A	Leather DTMF Case with High-Activity Swivel Belt Loop. For use with FM approved 1100 mAh battery.
HLN9427A	Leather DTMF Case with High-Activity Swivel Belt Loop. For use with FM approved 600 mAh battery.

MOLDED CARRY HOLDERS

HLN9076B	Molded Carry Holder. For high-capacity battery.
HLN8044A	Molded Carry Holder Strap. Snap closure.

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portable radio: carry accessories

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

BELT LOOPS / BUTTONS

Astro Digital Saber

4282421J06	2.5 Inch Leather Swivel Belt Loop
4205857B01	3 Inch Leather Swivel Belt Loop
PHN6141A	Removable D Button Used in conjunction with high-activity belt loop.

MT 2000/MTS 2000/LTS 2000

NTN8039B	2.5 Inch Leather Swivel Belt Loop
NTN8040B	3 Inch Leather Swivel Belt Loop
NTN1534A	High-Activity D-Button with 2.5 Inch High-Activity Swivel Belt Loop For use with NTN8039B.
NTN1535A	High-Activity D-Button with 3 Inch High-Activity Swivel Belt Loop For use with NTN8040B.
NTN8063A	High-Activity D-Button
NTN7484A	D Attachment

BELT CLIPS / STRAPS / BELTS

Astro Digital Saber

NTN7309A	Removable Belt Clip Attachment
NTN5243A	Adjustable, Black Nylon Carrying Strap Attaches to D-ring on cases.
NTN7758A	Leather Case T-Strap
4200865599	1.75 Inch Wide Black Belt

MT 2000/MTS 2000

4205638V09	2.5 Inch Belt Clip, Black
4205638V07	3 Inch Belt Clip, Black Aluminum
NTN5243A	Adjustable, Black Nylon Carrying Strap Attaches to D-ring on cases.
NTN7782A	T-Strap for Leather Carry Cases
4200865599	1.75 Inch Wide Black Belt

LTS 2000

HLN9724A	2.5 Inch Belt Clip
HLN8255B	3 Inch Spring Action Belt Clip
NTN5243A	Adjustable, Black Nylon Carrying Strap Attaches to D-ring on cases.
TDN1002A	Swiveller. Includes holster belt and strap.
4200865599	1.75 Inch Wide Black Belt

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portable radio: carry accessories

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

Chest Packs and RadioPAk

These versatile carry accessories fit virtually any radio.

Lightweight and comfortable, each of these packs make

an ideal companion for two-way radios.

HLN6602A

RLN4570A

RLN4815A

Chest Pack

Motorola Original® Universal Chest Pack protects the radio and provides the freedom from holding it during standby communication mode. Universal Chest Pack fits virtually any radio.

HLN6602A	Universal Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch
1505596Z02	Replacement Strap for HLN6602A/RLN4570A

Break-A-Way Chest Pack

All the features of the original Universal Chest Pack (HLN6602A) plus break-a-way tabs that allow the entire pack to be pulled off with approximately 10 lbs. of pressure.

RLN4570A	Break-a-Way Chest Pack with Radio Holder, Pen Holder and Velcro Secured Pouch.
1505596Z02	Replacement Strap for HLN6602A/RLN4570A

Universal RadioPAk™

The RadioPAk is lightweight and comfortable. Worn around the waist, it keeps radios/phones at hand. It features a separate 6 x 8 inch zippered pouch for other on-the-job necessities. Adjustable woven nylon belt fits both men and women.

RLN4815A	RadioPAk Radio/Utility Case
4280384F89	RadioPAk Extension Belt For waists larger than 40 inches.

Waterproof Bag

HLN9985B	Waterproof Bag with Large Strap

Portable Radio Hangers

Portable Radio Hangers slide over and hangs from the vehicle door panel allowing convenient, easy mounting. Radio belt clip required.

TDN9327A	Portable Radio Hanger for door panels up to 2.75 inches.
TDN9373A	Portable Radio Hanger for door panels 2.75 to 3.25 inches.

TDN9327A

TDN9373A

Unlike rigid holders,

the universal-fit RadioPAk is

lightweight and comfortable.

An ideal companion for two-way radios,

as well as iDEN® portables

and cellular phones.

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portable radio: batteries

ASTRO Digital SABER, MT 2000, MTS 2000, and LTS 2000

IMPRES Batteries

IMPRES™ Batteries

IMPRES batteries, when used with an IMPRES charger, provide automatic, adaptive reconditioning, end-of-life display and other advanced features. Data is stored in the battery and communicated to the charger via a unique IMPRES communication protocol which is designed to maximize talk-time and optimize battery cycle life – all automatically.

	Astro Digital Saber
HNN9033B	NiCd, 2000 mAh
HNN9034B	NiCd, 2000 mAh, Intrinsically Safe.
	MT 2000/MTS 2000
HNN9028AR	NiCd, 1550 mAh
HNN9029AR	NiCd, 1550 mAh, Intrinsically Safe.

NTN4596DR

NTN7058AR

NTN8251AR

Battery Characteristics

NiCd batteries provide the maximum number of charge/discharge cycles and are best suited for temperature extremes.

NiMH batteries provide more talk-time per shift and are less prone to memory effect.

Li-ion batteries offer the best power-to-weight ratio of all chemistries, with no memory effect.

Batteries

	PREMIUM NICKEL CADMIUM - NiCd
	Astro Digital Saber
NTN4593DR	NiCd, 1100 mAh
NTN4595DR	NiCd, 1800 mAh
NTN4538DR	NiCd, 1100 mAh, Intrinsically Safe, Submersible.
NTN4596DR	NiCd, 1800 mAh, Intrinsically Safe, Submersible. Class I, II, III; Div I; Group D, F, G.
NTN7058AR	NiCd, 1800 mAh, Intrinsically Safe, Submersible.
	MT 2000/MTS 2000
NTN7372BR	NiCd, 1200 mAh, Intrinsically Safe
NTN7149BR	NiCd, 1300 mAh CSA.
NTN7150AR	NiCd, 1200 mAh MSHA.
NTN7144CR	NiCd, 1500 mAh
	LTS 2000
HNN9628B	NiCd, 1200 mAh
HNN9701A	NiCd, 1100 mAh, Intrinsically Safe.
	PREMIUM NICKEL METAL HYDRIDE - NiMH
	Astro Digital Saber
NTN7014BR	NiMH, 1350 mAh
NTN8251AR	NiMH, 1650 mAh
	MT 2000/MTS 2000
WPNN4013A	NiMH, 2000 mAh
WPNN4037A	NiMH, 1900 mAh
	PREMIUM LITHIUM ION - Li-ion
	Astro Digital Saber
NTN8818A	Li-ion, 1700 mAh

NTN7372BR

NTN7144CR

WPNN4013A

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IMPRES™ Smart Energy Systems

Through the use of its advanced charging algorithm and automatic reconditioning features, the IMPRES Smart Energy System ensures maximum talk-time and optimized battery cycle life. This smart energy system automatically reconditions IMPRES batteries based on actual usage, keeping them in peak condition. Talk-time and cycle life are optimized and the need for manual maintenance programs is eliminated. Its advanced conditioning features allow batteries to be safely left on the charger for extended periods of time without incurring the damaging heat build-up which can decrease battery cycle life. In addition, batteries left in the charger are kept fully charged so they are always ready when needed. This rapid-rate, tri-chemistry charging system will also charge compatible non-IMPRES batteries and supports multiple radio platforms including SABER, XTS and HT 1000 Series portables.

IMPRES™ Single-Unit Chargers

	Astro Digital Saber/MT 2000/MTS 2000
WPLN4111AR	IMPRES Single-Unit Charger, 110 Volt, US Plug
WPLN4112BR	IMPRES Single-Unit Charger, 220 Volt, Euro Plug

WPLN4111AR

IMPRES™ Multi-Unit Chargers

	Astro Digital Saber/MT 2000/MTS 2000
WPLN4108BR	IMPRES Multi-Unit Charger, 110 Volt, US Plug
WPLN4109BR	IMPRES Multi-Unit Charger, 220 Volt, Euro Plug
WPLN4110BR	IMPRES Multi-Unit Charger, 240 Volt, UK Plug
NLN7967A	Wall Mount for Multi-Unit Chargers

WPLN4130A

IMPRES™ Multi-Unit Chargers with Display Modules

Charger Display Modules provide powerful, "real time" analyzing information for IMPRES batteries, including current charge status, battery mAh, percent rated capacity and battery voltage. Readout displays battery kit number, serial number and chemistry and the time remaining to complete the charge for NiCd and NiMH batteries.

	Astro Digital Saber/MT 2000/MTS 2000
WPLN4130A	IMPRES Multi-Unit Charger with Display Modules, 110 Volt, US Plug
WPLN4131AR	IMPRES Multi-Unit Charger with Display Modules, 220 Volt, Euro Plug
NLN7967A	Wall Mount for Multi-Unit Charger

IMPRES™ Individual Charger Display Module

This module is compatible with the standard IMPRES™ Multi-Unit Charger WPLN4108BR, WPLN4109BR and WPLN4110BR. Up to 6 modules can be used per charger, one for each charging pocket. Includes detailed installation instructions.

	Astro Digital Saber/MT 2000/MTS 2000
RLN5382A	Charger Display Module for IMPRES Multi-Unit Charger with Software Version 1.3 or Later.

Note: Display Modules compatible with Multi-Unit Charger with Software version 1.2 or earlier require a software flash update.

Version number is located on label on the bottom of the IMPRES™ Multi-Unit charger. If no version is shown, it is earlier than version 1.2. Version 1.2 will appear as V1.20, 1.3 will appear as V1.30, etc.

RLN5382A

IMPRES™ CD

This CD provides an interactive guide to the IMPRES Charging System. It outlines the benefits and gives examples of application usage.

	Astro Digital Saber/MT 2000/MTS 2000
0180305J70	IMPRES CD

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Single-Unit, Rapid-Rate, Universal Charger

These tri-chemistry chargers support Nickel Cadmium, Nickel Metal Hydride and Lithium-ion batteries. They will rapid charge most batteries to 90% capacity in one to two hours and employ trickle and maintenance modes that ensure batteries are safely charged to full-capacity.

NTN1667A

HTN9042A

Astro Digital Saber

NTN1667A	Universal Charger, 110 Volt, US Plug
NTN1668B	Universal Charger, 220 Volt, Euro Plug
NTN1669B	Universal Charger, 230 Volt, UK Plug

MT 2000/MTS 2000

RPX4747A	Compact Rapid-Rate Charger, 110 Volt, US Plug
RPX4748A	Compact Rapid-Rate Charger, 220 Volt, Euro Plug
RPX4749B	Compact Rapid-Rate Charger, 230 Volt, UK Plug

LTS 2000

HTN9042A	Rapid-Rate Intellicharger, 120 Volt, US Plug
HTN9043A	Rapid-Rate Intellicharger, 220 Volt, Euro Plug
HTN9044A	Rapid-Rate Intellicharger, 240 Volt, UK Plug

Multi-Unit Chargers (MUC)

Multiple unit chargers can be wall or rack mounted and are ideal for multiple shift operations. They can charge up to 6 batteries simultaneously and are available in a variety of voltages for domestic and international applications.

LTS 2000

HTN9060A	6-Pocket, 1-Hour Rapid-Rate Charger 110 Volt - NiCd and NiMH batteries.
HTN9061A	6-Pocket, 90-Minute Rapid-Rate Charger 220 Volt - NiCd and NiMH batteries.
HTN9062A	6-Pocket, 90-Minute Rapid-Rate Charger 240 Volt - NiCd and NiMH batteries.

WALL MOUNT BRACKETS

HLN9293A	Wall Mount Bracket for 90-Minute Multi-Unit Chargers
HLN9944A	Wall Mount Bracket for Multi-Unit Chargers

HTN9060A

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Motorola Conditioning Chargers (MCC)

The MCC features Instant Fault Detection technology that detects faulty batteries in seconds. You'll know right away when a battery won't operate at peak performance - saving you time and trouble. Each unit rapidly charges NiCd and NiMH batteries and optimizes battery performance. It's patented negative pulse charging process minimizes overheating and overcharging, extending useful battery life. Batteries can be left on the charger for extended periods of time, without worry of heat build-up. Optional accessories are available that allow the MCC to be used in both AC and DC environments.

WPPN4002BR	Base Charge Unit, 110 Volt AC. Adapter plates sold separately.
WPPN4006BR	Base Charge Unit, 220 Volt AC. Adapter plates sold separately.
WPPN4065AR	Multi-Unit Conditioning Charger, 4-Station Base, 110 Volt. Adapter plates sold separately.

Astro Digital Saber

WPLN4096BR	Charger Kit 110 Volt AC, includes Single-Unit base and 7 Volt adapter plate.
WPLN4097BR	Charger Kit, 220 Volt AC, includes Single-Unit base and 7 Volt adapter plate.
WPPN4001BR	7 Volt Adapter Plate

MT 2000/MTS 2000

WPLN4090BR	Charger Kit, 110 Volt AC. Includes single-unit base and 7 Volt adapter plate.
WPLN4091BR	Charger Kit, 220 Volt AC. Includes single-unit base and 7 Volt adapter plate.
WPPN4004BR	7 Volt Adapter Plate

LTS 2000

WPLN4088CR	Charger Kit, 110 Volt AC. Includes Single-Unit base and 7 Volt adapter plate.
WPLN4089CR	Charger Kit, 220 Volt AC. Includes Single-Unit base and 7 Volt adapter plate.
WPPN4005CR	7 Volt Adapter Plate

WPPN4002BR
3080384G15

WPPN4065AR

Vehicular Mounting

RLN4814A	Vehicular Mounting Bracket and Hard Wire Cable For Single-Unit Motorola Conditioning Chargers. Includes DC Hard Wire Cable 3080384M21.
3080384M21	DC Hard Wire Cable with 3 A In-line fuse.

Vehicular Power Adapter

3080384G15	Vehicular Power Adapter

RLN4814A

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WPLN4079BR

NDN4005B

Battery Maintenance System^{PLUS} (BMS^{PLUS})

Increase the useful life of your batteries. Using interchangeable battery adapters (sold separately), the BMS^{PLUS} is capable of charging and discharging, analyzing, conditioning and cycle testing batteries. It supports NiCd, NiMH and Li-ion battery chemistries (Li-ion 6-station units only) and tracks better voltage and capacity (mAh). Its easy-to-use design supports hundreds of two-way, cellular and camcorder batteries. The BMS^{PLUS} offers a 3-year warranty and includes serial printer* port (RS-232).

WPLN4079BR	6-Station BMS^{PLUS}, 110 Volt AC, 50/60 Hz, US Plug
WPLN4080BR	6-Station BMS^{PLUS}, 230 Volt AC, 50/60 Hz, Euro Plug
WPLN4081BR	6-Station BMS^{PLUS}, 230 Volt AC, 50/60 Hz, UK Plug
WPPN4085BR	BMS^{PLUS} Li-ion Field Upgrade Kit. Upgrades WPLN4079AR, WPLN4080AR, WPLN4081AR. Allows units to support Li-ion batteries.
NDN4005B	3-Station BMS, 110 Volt AC, 50/60 Hz. Does not support Li-ion or 3-cell batteries.
NDN4006B	3-Station BMS, 230 Volt AC, 50/60 Hz. Does not support Li-ion or 3-cell batteries.

* Compatible with STAR Micronics SP200 series printers and printers with STAR printer emulation. STAR Micronics printers available at STAR Micronics distributors.

Battery Maintenance System Adapters

Astro Digital Saber

TDN9450A	NiCd Adapter, 7.5 Volt
TDN9434A	NiCd Adapter, 7.5 Volt. For use with NTN7058AR (SABER R).
WPPN4091AR	Li-ion Adapter. Compatible with Li-ion batteries only.

MT 2000/MTS 2000

TDN9435C	Adapter. Compatible with NiCd batteries only.
CDN6364A	Adapter. Compatible with both NiCd and NiMH batteries.

LTS 2000

TDN9437A	Adapter, for use with HNN9701A batteries
TDN9662A	Adapter, for use with HNN9628A
TDN9438A	Adapter, for use with HNN9808B

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Battery Optimizing System II (BOS II)

No other battery analyzer matches the speed, accuracy, versatility and ease-of-use of the BOS II in providing powerful analyzing capabilities. Users can select from 12 pre-programmed service programs making it quick and easy to get up and running. Because the BOS II is programmable, users can create custom programs to perform a wide variety of tasks specific to individual needs. New enhancements include new navigation keys and an improved, more intuitive menu system. Regular use of the BOS II can optimize battery performance and help extend battery life, helping reduce battery replacement costs.

WPLN4124BR

WPLN4124BR	BOS II, 4-Station, 90-264 Volt AC, US Plug. Adapter Plates Required.
WPLN4125BR	BOS II, 4-Station, 90-264 Volt AC, Euro/UK Plug. Adapter Plates Required.

- Quicktest™ diagnostic feature measures a battery's state of health in approximately 2 to 5 minutes
- Supports NiCd, NiMH, Li-ion and SLA batteries
- Increased power-programmable from 100 mAh to 4 amps per station
- Programmable adapters allow customization of maintenance routines
- Proprietary reduction cycle restores NiCd and NiMH batteries
- Printer output for reports and labels with computer interface, includes both 9-pin serial and 25-pin parallel ports
- 100W Universal Power Supply (110-240 VAC) provides up to 4 amps of power per station
- Interchangeable adapter plates accommodate nearly all Motorola two-way batteries and other major brands

Battery Optimizing System II Adapters

Astro Digital Saber

RL-71203	BOS II Ruggedized Battery Adapter
RL-72703	BOS II Battery Adapter. For use with NTN7058AR (SABER-R).

MT 2000/MTS 2000

RL-72403	BOS II Battery Adapter – MT 2000/MTS 2000

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RLN4884B

Vehicular Travel Charger

A great traveling companion that ensures constant communication while on the road. Its small compact design allows the radio to be used while rapid charging in the charger base. Unit includes a voltage regulated vehicular charger adapter, custom charger base, mounting bracket and coil cord.

MT 2000/MTS 2000

RLN4884B	Vehicular Travel Charger
RLN5914A	Universal Mounting Bracket for RLN4884B. Includes screws and nylon strap cord.

LTS 2000

RLN4833A	Vehicular Travel Charger
RLN5914A	Travel Charger Mounting Bracket Kit. Includes screws and nylon strap cord.

TRAVEL CHARGER TRANSFORMERS

MT 2000/MTS 2000/LTS 2000

2580600E05	Transformer, US, 120 Volt
2580600E06	Transformer, European, 230 Volt
2580600E07	Transformer, UK, 230 Volt
2580600E08	Transformer, Argentina, 220 Volt

HLN9719A

TDN9816A

Vehicular Charger Adapter

The Vehicular Charger Adapter is designed to easily charge batteries in a vehicle by adapting a single-unit, rapid-rate charger to the vehicular power adapter. Ideal for frequent travelers.

LTS 2000

HLN9719A	Vehicular Charger and Bracket, 12 Volt. For use with HTN9042A, HTN9043A, HTN9044A

Vehicular Charger

This 12 Volt DC charger is ideal for mobile use. It charges portable radio NiCd batteries in rapid-rate charge mode (less than 3 hours) until full charge is obtained and then switches to trickle charge mode. A micro-processor controls the charge rate. This durable unit comes with a metal mounting bracket and is PAC_RT compatible.

MT 2000/MTS 2000

TDN9816A	Vehicular Charger

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Flexible Whip

Flexible whip antennas have a one-piece finish and steel core for optimal radiation characteristics. They provide more comfort when radio is worn on the belt.

	Astro Digital Saber/MT 2000/MTS 2000/LTS 2000
8505241U03	7 Inch Flexible Whip Antenna, 806-870 MHz
	Astro Digital Saber/MT 2000/MTS 2000
8505241U05	6 Inch Flexible Whip Antenna, 403-520 MHz
	MT 2000/MTS 2000
8505241U04	7 Inch Flexible Whip Antenna, 896–941 MHz

Heliflex Antennas

Motorola Heliflex antennas are specifically engineered for maximum output and the greatest communication coverage. Helical antennas are sturdy and dependable. Each antenna is designed and built to quality standards. The skirt at the base of the connector helps to seal out damaging elements.The connector is made of plated brass material for long life.

	Astro Digital Saber/MT 2000/MTS 2000
	VHF
8505644V01	7.5 Inch Helical Antenna, 136-151 MHz
8505644V02	7 Inch Helical Antenna, 151-162 MHz
8505644V03	6.5 Inch Helical Antenna, 162-174 MHz
	UHF
8505644V04	3.5 Inch Helical Antenna, 403-435 MHz
8505644V05	3 Inch Helical Antenna, 435-470 MHz
8505644V06	3 Inch Helical Antenna, 470-520 MHz

Wideband

Wideband antennas are ideal when the radio is used in different frequencies since one antenna will cover all ranges.

	Astro Digital Saber/MT 2000/MTS 2000
8505518V01	8 Inch Wideband Antenna, 136-174 MHz

Stubby

This quarterwave stubby antenna is ideal when the radio is worn on a belt because the short antenna is non-obtrusive.

	MT 2000/MTS 2000
RAD4194A	3.55 Inch Stubby Antenna, 150-162 MHz
	Astro Digital Saber/MT 2000/MTS 2000/LTS 2000
8505241U06	4 Inch Stubby Antenna, 806-941 MHz For both 800 and 900 MHz applications.

Dipole

Dipole antennas are injection molded in lasting polyurethane. The wide skirt at the bottom of the connector protects against damaging environmental elements. The dipole antenna is ideal when strong and solid signal clarity is demanded.

	Astro Digital Saber/MT 2000/MTS 2000
NAF5039A	8 Inch Dipole Antenna, 806-870 MHz
	MT 2000/MTS 2000
8505884R02	8 Inch Dipole Antenna, 896-941 MHz

8505241U05

8505644V01

8505644V03

8505644V04

8505241U06

Antenna Characteristics

Heliflex antennas are engineered for maximum output and coverage.

Stubby antennas are non-obtrusive, ideal for wearing the radio on a belt.

Whip antennas are one-piece with a steel core for optimal radiation.

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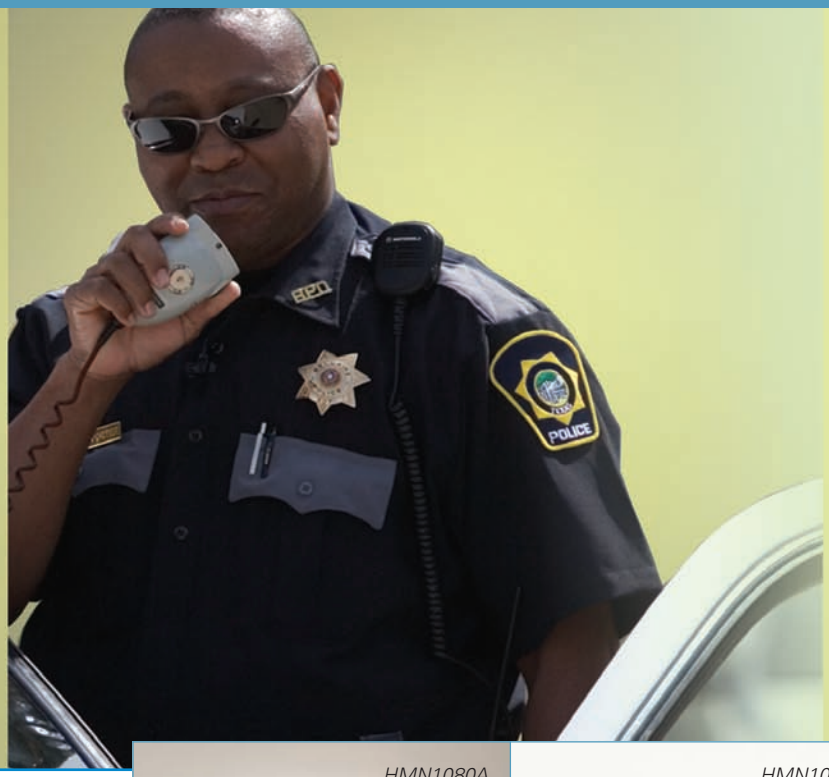
mobile radio: microphones and audio

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA, MCS 2000, GTX, and LCS 2000



HMN1080A

HMN1053B

HLN1220B

HMN4069E

HMN1035C

HMN3013A

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Microphones and Accessories

	Astro Digital SPECTRA, Astro Digital SPECTRA Plus, SPECTRA
HMN1080A	Standard Palm Microphone
HMN1053B	DTMF Microphone
5084898K10	Noise-Cancelling Microphone
HMN1081A	Palm Microphone. For use with Astro Digital Spectra W9 radio.
HLN1220B	Handset with Hang Up Box
HMN1079A	Water-Resistant Motorcycle Palm Microphone
	MCS 2000
HMN4069F	Standard White Palm Microphone
HMN4072E	Classic White Palm Microphone
NMN6210D	3 x 4 Button Keypad Microphone. Includes three extra programmable buttons.
GMN6147B	Noise-Cancelling Microphone. Includes three extra programmable buttons.
HMN1085B	Handset with Hang Up Cup
	GTX/LCS 2000
HMN3220B	Standard Compact Microphone
HMN1035C	Full Size Palm Microphone
HMN3013A	Non-Backlit, Full Size DTMF Microphone

Microphone Adapter Cables

Adapter cables allow a second microphone to be added via a mobile accessory connector. This requires adding a second Push-to-Talk microphone HMN4069E or HMN4072E, both sold separately.

	MCS 2000
HKN6129A	17-Foot Adapter Cable. For second microphone.
HKN6130A	40-Foot Adapter Cable. For second microphone.

Hands-Free Mobile Accessories

The Gooseneck Push-to-Talk and Foot Switch Push-to-Talk allow mobile users hands-free communication options.

	MCS 2000
FMN1611C	Dash Mount Visor Microphone. Requires GLN7279A or GLN7278B.
HKN6116A	1-Foot Adapter Cable
HMN1073A	Remote Mount Visor Microphone. Requires GLN7279A or GLN7278B.
GLN7279A	Gooseneck Push-to-Talk. Attaches to vehicle steering column.
GLN7278B	Foot Switch Push-to-Talk

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TDN6253A

TDN6254A

HSN4038A

HSN4018C

Speakers for Siren and Public Address Kits

	Astro Digital SPECTRA, Astro Digital SPECTRA Plus, SPECTRA
TDN6251A	Siren Speaker. Round with Chrome Finish.
TDN6252A	Siren Speaker. Rectangular with Chrome Finish.
TDN6253A	Siren Speaker. Underhood with Grey Finish.
TDN6254A	Siren Speaker. Round with Grey Finish.
H1336B	Siren/Public Address Kit Provides controlled tones for hi/low, yelp and airhorn through supplemental housing.
	MCS 2000
HSN4038A	7.5-Watt External Water Resistant Speaker Requires adapter cable HKN6127A for dash mount.
HSN4039A	13-Watt External Water Resistant Remote Speaker Requires adapter cable HKN6127A for dash mount.
HKN6127A	Speaker Adapter Cable

External Speaker

Provides audio for high ambient noise environments.

	Astro Digital SPECTRA, Astro Digital SPECTRA Plus, SPECTRA
HSN4018C	External Speaker
	GTX/LCS 2000
FSN5510A	7.5 Watt External Speaker
	MCS 2000/GTX/LCS 2000
HLN6356B	Installation Hardware Kit
	MCS 2000
GKN6263A	Ignition Sense Cable

Emergency Foot Switch

Enables user to send an emergency message to a desktop console, where the signalling unit ID number is displayed and an alarm is sounded.

	Astro Digital SPECTRA, Astro Digital SPECTRA Plus, SPECTRA/MCS 2000
HLN5113B	Emergency Foot Switch

Miscellaneous Hardware and Cables

	MCS 2000
GLN7282A	Alarm Buzzer
HLN6372A	Key Lock Mount
HKN6128A	Ignition Switch Cable
GKN6262B	Car Radio Mute Cable
	Astro Digital SPECTRA, Astro Digital SPECTRA Plus, SPECTRA
HLN6025A	Key Lock Mount

HLN6025A

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Control Station Kit

Converts the mobile radio for desktop use for dispatch purposes. Includes adapter cable, base tray, black desk microphone and power supply.

GTX/LCS 2000

HLN3067B	Low Power Control Station Package

Control Station Accessories

Astro Digital SPECTRA, Astro Digital SPECTRA Plus, SPECTRA

HPN4007C	Control Station Power Supply, High Power
HKN4139A	Power Cable
HLN6042A	Control Station Tray
RMN5083A	Desktop Microphone, Black.

MCS 2000

RMN5068A	Desk Microphone. Black.
HLN6404A	Desk Tray with Speaker, Low Power. For Models II and III.
HLN6580B	Desk Tray with Speaker, Mid Power. For Models II & III.
HLN6581A	Desk Tray without Speaker, Low Power. For Model I.
HPN4007C	Power Supply, High Power

MCS 2000/GTX/LCS 2000

HPN4008B	Power Supply, Low Power
HLN6405A	Desk Tray without Speaker

GTX/LCS 2000

RMN5068A	Desk Microphone. Black.
HKN9088B	Adapter Cable

Quick Release Side Mount and Accessories

Astro Digital SPECTRA, Astro Digital SPECTRA Plus, SPECTRA

RLN4077A	Angle Bracket Features 20 Degrees Fixed and 50 Degrees Swivel Angle.
RLN4078A	Flat Bracket with 50 Degrees Swivel Angle.

Alarm Kit

GTX/LCS 2000

GKN6272AR	External Alarm Relay Cable Kit

Mounting Bracket

GLN7317A	Non-locking Bracket

Remote Mount Kits and Power Cables

Converts a low or mid-power radio from dash to remote mount. Includes 17-foot control head cable, 20-foot power cable, 40-foot power cable, control head back plate and mounting hardware, front plate for transceiver and adapter for speaker.

MCS 2000

H1634A	Remote Mount Retrofit Kit. For use with Model I.
H1635A	Remote Mount Retrofit Kit. For use with Model II and III.

REMOTE MOUNT KIT ACCESSORIES

HKN6111B	10-Foot Control Head Cable
HKN6112B	17-Foot Control Head Cable
HKN6113B	22-Foot Control Head Cable
HKN6118B	40-Foot Control Head Cable
HKN4191B	10-Foot, Low/Mid Power Cable
HKN4192B	20-Foot, Low/Mid Power Cable

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Laird Technologies

Laird Technologies designs and manufactures antennas to exacting electrical and mechanical specifications for critical applications in Defense, Public Safety, Transportation, Satellite, and Medical communications. These top quality mobile, portable and base antenna products utilize the latest patented technologies, lean manufacturing techniques, custom automation and vertical integration. These antennas are commonly used with wireless voice and data, asset tracking, and two-way radios, they are widely employed throughout the security, military, public safety, and other mission critical industries. Many of the Laird patented technologies offer solutions unavailable from other antenna manufacturers.

Phantom Elite®

This exclusive low-profile, stealth antenna with Patented Field Diversity™ technology etched on a circuit board is for use with VHF, UHF, Dual Band and 2.4 GHz applications. Includes antenna only and attaches to the standard NMO ¾ inch mount – sold separately.

RDD5423A	150-155 MHz Unity Gain Phantom Elite, White
RDD5424A	150-155 MHz Unity Gain Phantom Elite, Black
RDE5797A	450-470 MHz 3dB Phantom Elite, White
RDE5798A	450-470 MHz 3dB Phantom Elite, Black
RDF5723A	806-866 MHz 3dB Phantom Elite, White
RDF5724A	806-866 MHz 3dB Phantom Elite, Black

RDE5798A

Phantom®

Phantom true field diversity design ensures uninterrupted video and data transmissions in urban canyons and rural drop off areas 3dB MEG gain outperforms a 3dB whip in many applications. For mobile and fixed applications with NMO or permanent N female mount – sold separately.

RAE4167A

RDE5514A

Dual Band Antennas

RDG4479A	821-869/1850-1990 MHz 3dB Dual Band Phantom, White
RDG4480A	821-869/1850-1990 MHz 3dB Dual Band Phantom, Black

Single-Band Antennas

RAD4209A	142-160 MHz Tunable Phantom NMO mtg 60W, Black
RAD4210A	142-160 MHz Tunable Phantom NMO mtg 60W, White
RAD4207A	150-168 MHz Tunable Phantom NMO mtg 60W, White
RAE4167A	450-470 MHz 3dB Phantom NMO ¾ Mount, White
RAE4168A	450-470 MHz 3dB Phantom NMO ¾ Mount, Black
RDE5514A	450-470 MHz 3dB Phantom with ⅝ stud permanent mount N female, White
RAF4220A	806-866 MHz 3dB Phantom NMO ¾ Mount, White
RAF4217A	821-896 MHz 3dB Phantom NMO ¾ Mount, White

A-Base

Gold-plated push-pin contact provides the most corrosion resistance and power transfer over time. Longer tuning ferrule allows for greater freedom in frequency adjustment without trimming. Includes antenna only and attaches to the standard NMO ¾ inch mount – sold separately.

RDD5410A	150-174 MHz ¼ Wave Chrome Center Tunable A-Base Whip
RDD5408A	150-174 MHz ¼ Wave Chrome Center Tunable A-Base Whip with Spring
RDF5433A	806-896 MHz 3dB Chrome Open Collinear A-Base
RDD5553A	118-896 MHz ¼ Wave Chrome Tunable A-Base

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Quarterwave Antennas

Quarterwaves are built with gold plated contacts for corrosion resistance and best power transfer. Stand up™ grommet will not degrade over time. High spring temper rod stays straighter longer. Stainless steel corona ball stays on the rod without dissimilar metal interaction. Includes antenna only and attaches to the standard NMO ¾ inch mount – sold separately.

RAD4229A	162-174 MHz ¼ Wave Stainless Antenna
RDD5227A	152-162 MHz ¼ Wave Stainless Antenna
RDD5228A	152-162 MHz ¼ Wave Black Antenna
RDE5485A	450-470 MHZ ¼ Wave Stainless Antenna
RDE5486A	450-470 MHz ¼ Wave Black Antenna
RDF5436A	806-896 MHz ¼ Wave Stainless Antenna
RDF5439A	806-866 MHz 3dB Stainless Open Coil Flexible Antenna
RDF5437A	806-896 MHz ¼ Wave Black Antenna
RDF5438A	806-866 MHz 3dB Black Open Coil Flexible Antenna
RDF5617A	118-970 MHz ¼ Wave Stainless Field Tunable Antenna
RDF5657A	118-970 MHz ¼ Wave Black Field Tunable Antenna
RDB4497A	27-54 MHz ¼ Wave Stainless Antenna

Mobile Load Coil

Low loss coil form adds dimensional and frequency stability. ABS material is injection molded around solid brass inserts to create a housing that is virtually leak proof. All silver solder joints ensure electrically and mechanically secure connections. All NMO mountable. Includes antenna and attaches to the standard NMO ¾ inch mount – sold separately.

RDD5229A	132-525 MHz VHF Broadband ¼ Wave with spring
RDD5230A	144-174 MHz ½ Wave No ground Plane 2.4dB
RDD5413A	144-174 MHz ½ Wave No ground Plane 2.4dB with spring
RDD5231A	144-174 MHz 3dB Base Loaded ⅝ Wave
RDD5414A	144-174 MHz 3dB Base Loaded ⅝ Wave with spring
RDE5487A	450-470 MHz 3dB Base Loaded ⅝ Wave
RDE5488A	450-470 MHz 5dB ⅝ Wave Closed Collinear
RDE5785A	450-470 MHz 5dB Closed Collinear with spring
RDF5440A	806-866 MHz 3dB Base Loaded ⅝ Wave
RDB4499A	42-48 MHz Base Loaded Wideband

RDD5414A *RDD5231A*

Mobile Mounting Equipment

All brass construction and gold plated contact design ensure the most corrosion resistance and best power transfer available. Silver soldered ground lug and contact virtually eliminate RF noise or static.

RRDN4927A	¾ inch Hole brass NMO Mount with 17' RG58A/U cable, no connector
3080384M48	¾ inch Hole brass NMO Mount with 17' RG58U cable, mini-UHF connector (not attached)
RRDN5461A	¾ inch Hole brass NMO Mount with 17' RG58A/U cable, mini-UHF connector (not attached)
RRDN5628A	¾ inch Hole brass NMO Mount with 17' Teflex – no connector
RRDN6063A	¾ inch Hole brass NMO Mount with 17' RG58A/U cable, PL259 connector (not attached)
RRDN6945A	¾ inch Hole brass NMO Mount with 17' RG58U cable, PL259 connector (not attached)
RRDN6946A	¾ inch Hole brass NMO Mount with 17' RG58U cable, no connector
RRDN6798A	¾ inch or ⅜ inch Hole (up to ½ inch thick) plate mount with 17' RG58A/U cable, no connector
RRDN6847A	Mobile-to-Base converter for VHF and UHF, N terminated
RRDN6848A	Quarterwave Chrome Rain Cap for NMO Mount
RRDN6849A	Quarterwave Black Rain Cap for NMO Mount
RRDN7132A	Chrome Quarterwave Nut
RAN4049A	¾ inch Hole Mount O-ring 6-pack
RAN4052A	¾ inch Hole Brass Mount. For use with RG58 size cable (not included) no connector

RRDN6798A

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Through-hole Mount Antennas

800 MHz ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000/GTX/LCS 2000

HAF4002A	806-900 MHz, 1/4 Wave
RRA4983A	806-900 MHz, 3dB, Low loss cable

GTX/LCS 2000

RRA4914B	806-900 MHz, 3dB Stainless Steel
RRA4990A	806-900 MHz, 3dB Black Chrome
RRA4986A	806-900 MHz, 3dB Black Chrome, low loss cable

900 MHz ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000/GTX/LCS 2000

RRA4935A	890-960 MHz, 3dB Antenna with 14 ft. Cable
RAF4003ARM	890-960 MHz, 3dB Antenna with 22 ft. low loss cable

VHF ANTENNA

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000

HAD4006A	136-144 MHz, 1/4 Wave
HAD4007A	144-152 MHz, 1/4 Wave
HAD4008A	150.8-162 MHz, 1/4 Wave
HAD4009A	162-174 MHz, 1/4 Wave
RAD4010ARB	136-174 MHz, 3dB

UHF ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000/GTX/LCS 2000

HAE4002A	403-430 MHz, 1/4 Wave
HAE4003A	450-470 MHz, 1/4 Wave
HAE4004A	470-512 MHz, 1/4 Wave
HAE4010A	406-420 MHz, 3.5dB
HAE4011A	450-470 MHz, 3.5dB
HAE4012A	470-494 MHz, 3.5dB
HAE4013A	494-512 MHz, 3.5dB

HAF4002A

RRA4935A

HAE4003A

Low Profile Antennas

UHF ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000/GTX/LCS 2000

RAE4162A	White 410-430 MHz, 3dB Gain
RAE4163A	Black 410-430 MHz, 3dB Gain
RAE4164A	Black 430-450 MHz, 3dB Gain
RAE4165A	White 430-450 MHz, 3dB Gain
RAE4166A	Black 470-490 MHz, 3dB Gain
RAE4167A	White 450-470 MHz, 3dB Gain
RAE4168A	Black 450-470 MHz, 3dB Gain
RAE4169A	White 470-490 MHz, 3dB Gain

800 MHz ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000/GTX/LCS 2000

RAF4217A	White 821-896 MHz, 3dB Gain
RAF4218A	Black 821-896 MHz, 3dB Gain
RAF4219A	Black 806-866 MHz, 3dB Gain
RAF4220A	White 806-866 MHz, 3dB Gain

VHF ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA

RAD4207A	White 150-168 MHz, Unity Gain
RAD4208A	Black 150-168 MHz, Unity Gain
RAD4209A	Black 142-160 MHz, Unity Gain
RAD4210A	White 142-160 MHz, Unity Gain

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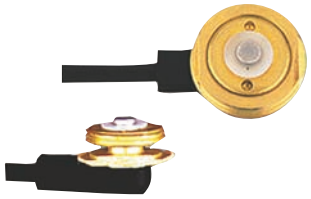
Antenna Mounts

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000/GTX/LCS 2000

3080384M44	Black Magnetic With 12 ft. of RG58A/U Cable, Mini-UHF Crimp
3080384M45	Chrome Magnetic With 12 ft. of RG58A/U Cable, Mini-UHF Crimp
3080384M46	Chrome Trunk Mount With 17 ft. of RG58A/U Cable, Mini-UHF Crimp
3080384M47	Black Trunk Mount With 17 ft. of RG58A/U Cable, Mini-UHF Crimp
3080384M48	3/4 Through-hole Mount With 17 ft. of RG58A/U Cable, Mini-UHF Crimp



3080384M48

Antenna Adapters

HKN9557A	Mini UHF to UHF Adapter Cable
2880376E84	Mini UHF Antenna Connector
HLN8027A	Mini UHF to BNC Connector

HKN9557A

2880376E84

Low Profile Antennas Kits for Through-hole Mounts

These complete kits make installation easy for multi-point mobile applications. Perfect for service vehicles, law enforcement and other applications where mobility is a requirement. All kits include a 3/4 inch brass mount with 17 feet of RG58U/U cable.

UHF ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000/GTX/LCS 2000

RAE4162ARB	White 410-430 MHz, 3dB Gain
RAE4163ARB	Black 410-430 MHz, 3dB Gain
RAE4164ARB	Black 430-450 MHz, 3dB Gain
RAE4165ARB	White 430-450 MHz, 3dB Gain
RAE4166ARB	Black 470-490 MHz, 3dB Gain
RAE4167ARB	White 450-470 MHz, 3dB Gain
RAE4168ARB	Black 450-470 MHz, 3dB Gain
RAE4169ARB	White 470-490 MHz, 3dB Gain

800 MHz ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA/MCS2000/GTX/LCS 2000

RAF4217ARB	White 821-896 MHz, 3dB Gain
RAF4218ARB	Black 821-896 MHz, 3dB Gain
RAF4219ARB	Black 806-866 MHz, 3dB Gain
RAF4220ARB	White 806-866 MHz, 3dB Gain

VHF ANTENNAS

ASTRO Digital SPECTRA, SPECTRA Plus, SPECTRA

RAD4207ARB	White 150-168 MHz, Unity Gain
RAD4208ARB	Black 150-168 MHz, Unity Gain
RAD4209ARB	Black 142-160 MHz, Unity Gain
RAD4210ARB	White 142-160 MHz, Unity gain

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